

Patent Abstracts of Japan

PUBLICATION NUMBER : 2002002210
PUBLICATION DATE : 08-01-02

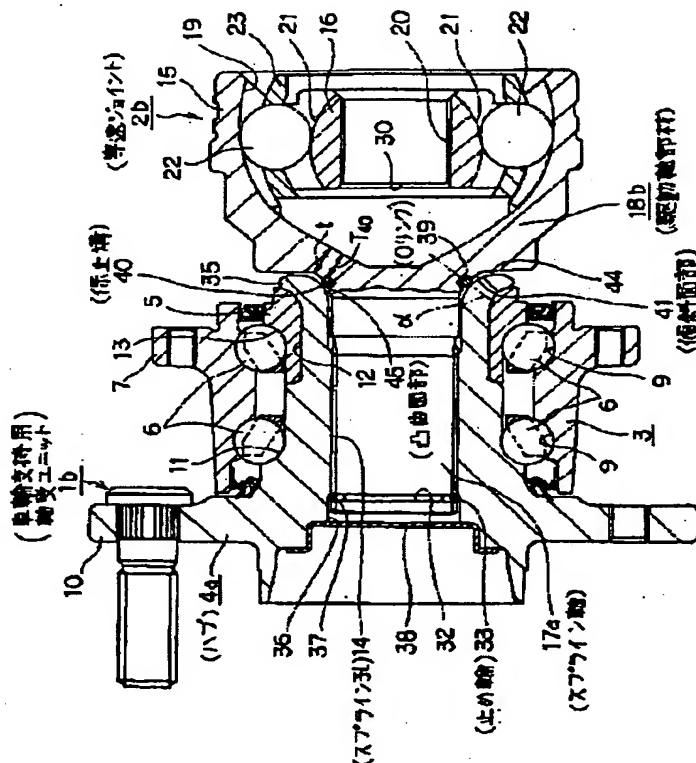
APPLICATION DATE : 21-06-00
APPLICATION NUMBER : 2000186243

APPLICANT : NSK LTD;

INVENTOR : OUCHI HIDEO;

INT.CL. : B60B 35/14 B60B 35/16 F16D 3/224
F16J 15/06

TITLE : BEARING UNIT FOR WHEEL DRIVE



ABSTRACT : PROBLEM TO BE SOLVED: To achieve a structure fully ensuring strength of a section which forms a retaining groove 40 to retain an O-ring 39 and minimizing steering moment.

SOLUTION: A hub 4a of this unit is provided with a convex curve surface 45 inclining toward a direction with its inside diameter enlarged as it directs axially inward, in its inner end section of inner circumference. In the unit, a slope section 41 inclined to the direction in which the diameter is enlarging toward inner axial direction is formed on an area diametrically-faced the convex curve surface 45 in the outer circumference of a spline shaft 17a base end section. A retaining groove 40 is formed on midway of this slope section 41 to elastically compress an O-ring 39 between the inside of this retaining groove 40 and the convex curve surface 45. This prevents the diameter of section forming the retaining groove 40 from significantly being lessened as well as prevents the axial directional dimensions of a seal section configured including this retaining groove 40 from being increased to solve the above problems.

COPYRIGHT: (C)2002,JPO